ABSTRACT OF THE DISCLOSURE

A thickness extensional vibration mode piezoelectric resonator includes a piezoelectric body having piezoelectric layers and N internal electrodes disposed therein, where N is an integer equal to 3 to 5. Electric fields of opposite polarity are applied alternately in the direction of thickness to the piezoelectric layers located between the internal electrodes. When the thickness of a piezoelectric layer between adjacent internal electrodes in the direction of thickness is denoted by D and the thicknesses of a first and second piezoelectric layer outside the outermost internal electrodes in the direction of thickness are denoted by D_1 and D_2 , the following relationships are satisfied: $0.50 \le (D_1 + D_2)/2D \le 0.90$ at N = 4, and $0.50 \le (D_1 + D_2)/2D \le 0.80$ at N = 5.